

### Abstract

The present invention relates to devices and a method for biometric authentication by means of reference data stored in a memory of a portable data carrier.

For biometric authentication methods to make their final breakthrough with respect to more widespread use, there is a need for standardized generation of reference data for the particular biometric features used for authentication. Different suppliers of methods and devices for biometric authentication have hitherto used algorithms for generating the reference data which normally lead to different reference data which are not interchangeable. This limits the employability of biometric methods to the supplier's particular system.

The present invention avoids this problem by storing several sets of biometric reference data, thereby increasing the likelihood of the evaluation of at least one set of stored biometric reference data being possible. Thus, the desired system-independent authentication can be attained.

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